

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) A system for treating a tissue area of a patient with light, wherein the tissue area includes a plurality of sub-areas having different levels of melanin in the different sub-areas the system comprising:

a plurality light emitting devices optically coupled with the tissue area;

wherein the plurality of light emitting devices, are configured into different regions of light emitting devices, and wherein the different regions of light emitting devices correspond to the different sub-areas having different levels of melanin;

a driver circuit electrically coupled with the plurality of light emitting devices such that the driver circuit can drive the light emitting devices to output light treatment to the tissue, wherein the driver circuit drives the plurality of regions to output different intensities of light treatment to the different sub-areas; and

a controller coupled to the driver circuit which controls the driver circuit to drive the different regions of light emitting devices to output different intensities of light treatment to the different sub-areas of the patient's tissue, wherein the controller operates to control the driver circuit to drive the different regions to output different intensities of light treatment to different sub-areas based on the different levels of melanin in the different sub-areas.

2. (previously presented) The system of claim 1, wherein the controller operates to cause the driver circuit to drive a first region of light emitting devices, which corresponds to a first sub-area of tissue having a low melanin content, to output a light treatment, and to cause the driver circuit to not drive a second region of light emitting devices, which correspond to a second sub-area having a high melanin content, such that no light treatment is provided to the second sub-area.

3. (previously presented) The system of claim 2 further including:

a first light sensing device which is included in the first region of light emitting devices, and detects light reflected from the first sub-area of a patient's tissue having a low melanin content, and generates a first signal corresponding to the reflection of light from the first sub-area, and wherein the first light sensing device is coupled to the controller, and the controller receives the first signal, and based on the first signal causes the driver circuit to drive the first region of light emitting devices to output the light treatment, which induces tanning in the first sub-area; and

a second light sensing device is included in the second region of light emitting devices, and detects light reflected from the second sub-area of a patient's tissue having a high melanin content, and generates a second signal corresponding to the reflection of light from the second sub-area, and wherein the second light sensing device is coupled to the controller, and the controller receives the second signal, and based on the second signal causes the driver circuit to not drive the second region of light emitting devices, such that no light treatment for inducing tanning is provided to the second sub-area.

4. (previously presented) The system of claim 1, wherein the controller operates to cause the driver circuit to drive a first region of light emitting devices which corresponds to a first sub-area of tissue having a first level of melanin content to output a first level of light treatment, and to cause the driver circuit to drive the second region of light emitting devices which corresponds to the second sub-area of tissue having a second level of melanin content to output a second level of light treatment.

5. (previously presented) The system of claim 4, further including:

a first light sensing device which is included in the first region of light emitting devices, and detects light reflected from the first sub-area of a patient's tissue having the first level of melanin content, and generates a first signal corresponding to the reflection of light from the first sub-area, and wherein the first light sensing devices is coupled to the controller, and the controller receives the first signal, and based on the first signal causes the driver circuit to drive the first region of light emitting devices to output the first level of light treatment; and

a second light sensing device is included in the second region of light emitting devices, and detects light reflected from the second sub-area of a patient's tissue having the second level of melanin content, and generates a second signal corresponding to the reflection of light from the second sub-area, and wherein the second light sensing device is coupled to the controller, and the controller receives the second signal, and based on the second signal causes the driver circuit to drive the second region of light emitting devices, to output the second level of light treatment.

6. (previously presented) The system of claim 1, wherein the light emitting devices are light emitting diodes.

7. (previously presented) The system of claim 1, wherein at least one of the different regions of light emitting devices, includes only a single light emitting device.

8. (previously presented) The system of claim 1, wherein at least one of the different regions of light emitting devices includes more than one light emitting device.

Claim 9. (canceled)